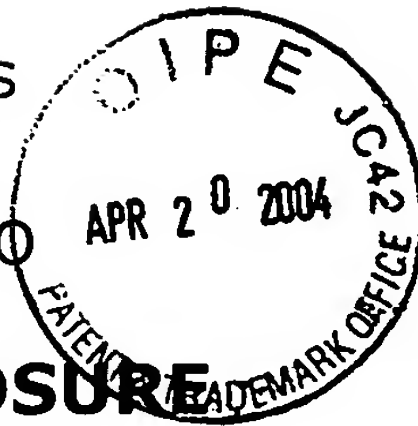


Express Mail: EV373443970US  
 Date Deposited: April 20, 2004

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT



Complete if Known	
Application Number	10/669,614
Filing Date	09/24/2003
First Named Inventor	John E. Fagan, et al.
Group Art Unit	3662
Examiner Name	Unknown
Attorney Docket Number	5820.642

(use as many sheets as necessary)

## U. S. PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	U.S. PATENT NUMBER Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5786773		Murphy	07/28/1998	
	AB	2001035840		Purves et al.	11/01/2001	

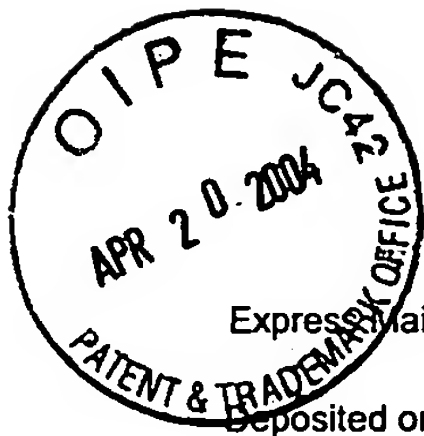
## FOREIGN PATENT DOCUMENTS

EXAM INIT.	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office 3	Number 4	Kind Code <sup>5</sup> (if known)				
	BA		0186317 A2		PCT	11/15/2001		
	BB		24050054 A1		Canada	11/15/2001		
	BC		5809401 A		Australia	11/20/2001		
	BD		1290468 A2		EPO	12/03/2003		

**U.S. and Foreign:** <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that Issued the document, by the two-letter code (WIPO Standard St.3). <sup>4</sup>Form Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

EXAM INIT.	PATENT DOCUMENTS	
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
	CA	"Development and test results of a precision approach and landing capability for military aircraft using an embedded GPS/INS (EGI) system" POSITION LOCATION AND NAVIGATION SYMPOSIUM, IEEE 1998, PALM SPRINGS, CA, April 20-23 1998, New York, NY, IEEE; J. Elecynski et al. April 20, 1998, pages 487-494, XPO10276867; * Section "Differential Ground System" page 492 *
	CB	"Honeywell's Differential GPS Satellite Landing System" AVIONICS NEWS MAGAZINE, 'Online! September 1996, XP002266362 Retrieved from the Internet; <URL:www.bluecoat.org/reports/Lewison_96_DGPS.pdf> 'retrieved on 01/08/2004! Page 3, column 2, line 46 -column 3, line 2.; G. Lewison

EXAM INIT.		<h2 style="text-align: center;">PATENT DOCUMENTS</h2> <p style="text-align: center;">Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published</p>
	CC	<p>"Integrating WAAS with LAAS to avoid signal spoofing" PROCEEDINGS OF THE 1995 8<sup>TH</sup> INTERNATIONAL TECHNICAL MEETING OF THE SATELLITE DIVISION OF THE INSTITUTE OF NAVIGATION. PART 1 OF 2; PALM SPRINGS, CA, SEPTEMBER 12-15, 1995; VIS SANDARAN ET AL. Volumn 1, 1995, pages 677-684, XP008026226, Proc ION GPS; Proceedings of ION GPS 1995 Inst of Navigation, Alexandria, VA, page 682, left-land column, line 27 - line 40, page 683, left-hand column, line 8 - line 26.</p>
	CD	<p>"Comprehensive integrity verification architecture for on-airport LAAS category III precision landing" SAM PULLEN ET AL. PROCEEDINGS OF THE 1996 9<sup>TH</sup> INTERNATIONAL TECHNICAL MEETING OF THE SATELLITE DIVISION OF THE INSTITUTE OF NAVIGATION, ION GPS-96, PART 2 (OF 2); KANSAS CITY, MO, SEPTEMBER 17-20, 1996, vol 2, 1996, pages 1623-1634, XP00266239 Proc ION GPS; Proceedings of ION GPS 1996 Inst of Navigation, Alexandria, VA *Section 2.1 "Ground Segment Failures", page 1624; figure 2 *</p>
	CE	<p>"Recent developments in the LAAS program YGPS" POSTION LOCATION AND NAVIGATION SYMPOSIUM, IEEE 1998 PALM SPRINGS, CA, APRIL 20-23, 1998, NEW YORK, NY, IEEE, APRIL 20, 1998, pages 441-470, XP010276866 ISBN: 0-7803-4330-1 *Section 3.3.5 "VHF Data Broadcast", page 455 - page 456; figure 4 * R SWIDER ET AL.</p>
<p><b>Non Patent Documents:</b> <sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.</p>		
Examiner Signature:		Date Considered:
<p>EXAMINER: Initial if citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant. **Place of Publication refers to name of publication in which the information was published.</p>		



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Deposited on: April 20, 2004

4-22-04  
APPROVEDfor  
PTO DEPOSIT ACCOUNT CHARGE  
ACCOUNT#04-1700  
*WR*

DUNLAP, CODDING &amp; ROGERS, P.C.

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/669/614
Filing Date	09/24/2003
First Named Inventor	John E. Fagan, et al.
Group Art Unit	3662
Examiner Name	Unknown
Attorney Docket Number	5820.642

Total Number of Pages in This Submission

**ENCLOSURES** (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  See remarks below:
<b>Remarks</b> 1. Supplemental Information Disclosure Statement (6 pages); 2. Form 1449A/PTO (modified) (2 page); 3. Cited Art 4. Fee Transmittal (1 page); 5. Transmittal Form (1 page); and 6. Postcard.		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	DUNLAP, CODDING & ROGERS, P.C., Customer Number 30589 P. O. Box 16370, Oklahoma City, Oklahoma 73113, Marc A. Brockhaus
Signature	<i>Marc Brockhaus</i>
Date	4-20-2004

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail or U.S. Express mail no. EV 373443970 US in an envelope addressed to the address below on this date: April 20, 2004

Typed or printed name	Marc A. Brockhaus, Reg. No. 40,923		
Signature	<i>Marc Brockhaus</i>	Date	4-20-2004

SEND TO: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Express Mail No.: EV 373443970 US  
Date Deposited: 04/20/2004

PTO DEPOSIT ACCOUNT CHARGE  
ACCOUNT #04-1700

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
DUNLAP CODDING & ROGERS, P.C.

# FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0

## Complete if Known

Application Number	10/669/614
Filing Date	09/24/2003
First Named Inventor	John E. Fagan, et al.
Examiner Name	Unknown
Art Unit	3662
Attorney Docket No.	5820.642

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

04-1700

Dunlap, Coddling & Rogers, P.C.  
Customer No. 30589

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ ) 0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent			\$0
Multiple Dependent			\$0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0

## SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Marc A. Brockhaus	Registration No. (Attorney/Agent)	40,923	Telephone	(405) 607-8600
Signature	Marc Brockhaus	Date	04/20/2004		

Mail Stop IDS  
Commissioner for Patents  
PO Box 1450, Alexandria, VA 22313-1450

**EXPRESS MAIL NO.: EV 373443970US**

**PATENT**

**Deposited On: April 20, 2004**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Application No. : 10/669,614 Confirmation No.: 5617**  
**Applicant(s) : John E. Fagan, et al.**  
**Filed : 09/24/2003**  
**TC/A.U. : 3662**  
**Examiner : Unknown**  
**Title : NAVIGATION SYSTEM USING LOCALLY  
AUGMENTED GPS**  
**Docket No. : 5820.642**  
**Customer No. : 30589**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

**List of Sections Forming Part of This  
Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1. ☒ Preliminary Statements
2. ☒ FORM PTO-1449 (Modified)
3. ☒ Statement as to Information Not Found in Patents or Publications
4. ☐ Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5. ☐ Cumulative Patents or Publications



- 6.    ☒    Copies of Listed Information Items Accompanying this Statement
- 7.    ☐    Concise Explanation of Non-English Language Listed Information Items
  - 7A.   ☐    EPO Search Report
  - 7B.   ☐    English Language Version
- 8.    ☐    Translation(s) of Non-English Language Documents
- 9.    ☐    Concise Explanation of English Language Listed Information Items (Optional)
- 10.   ☒    Identification of Person(s) Making this Information Disclosure Statement

## **Section 1.            Preliminary Statements**

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

## **Section 2.            Form PTO-1449 (Modified)**

- ☒    A completed Form 1449 (Modified) is attached hereto.
- ☐    No Form 1449 (Modified) is attached.

## **Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)**

**Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted**

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ (date).

*(complete the following, if applicable)*

- ☐ This application also relies, under 35 U.S.C. 120, on the earlier filing date of prior application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ (date).

The following references were submitted to, and/or cited by, the Office in the prior application(s) and therefore, are not required to be provided in this application:

**Section 5. Cumulative Patents or Publications**

**STATEMENT**

\_\_\_\_\_ is cumulative of the following patents or publications listed on Form PTO-1449:

In accordance with 37 C.F.R. § 1.98(c), a copy of only \_\_\_\_\_ is being submitted with this Information Disclosure Statement.

**Section 6. Copies of Listed Information Items Accompanying this Statement**

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

- ☐ Exception(s) to above:
- ☐ Items in prior application from which an earlier filing date is claimed for this application, as identified in Section 4.
- ☐ Cumulative patents or publications identified in Section 5.

## **Section 7. Concise Explanation of Non-English Language Listed Information Items**

### **Section 7A. Concise Explanation of Non-English Language Listed Information Items - EPO Search Report**

The relevance with respect to the following citations listed on Form PTO-1449:

is submitted on the basis of accompanying:

*(check the appropriate item)*

- ☐ EPO search report that is in the English language,
- ☐ EPO search report that is not in the English language and that is accompanied also by an English language version of the EPO search report,

that issued on the corresponding European patent application.

### **Section 7B. Concise Explanation of Non-English Language Listed Information Items - English Language Version of EPO Search Report**

## **Section 8. Translation(s) of Non-English Language Documents**

- ☐ Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

*(complete the following, if applicable)*



- ☐ No English language translations of the foreign language parents, publications or information or parts thereof are readily available, except for those listed above.
- ☐ The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith.


**Section 9. Concise Explanation of English Language Listed Information Items (OPTIONAL)**

**Section 10. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT**

The person making this statement is the attorney who signs below on the basis of the information:

- ☐ supplied by the inventor(s)
- ☐ supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- ☐ in the attorney's file
- ☒ provided in the International Search Report cited herein

Respectfully submitted,

  
Marc A. Brockhaus, Reg. No. 40,923  
DUNLAP, CODDING & ROGERS, P.C.  
P.O. Box 16370  
Oklahoma City, Oklahoma 73113  
(405) 607-8600 - telephone  
(405) 607-8686 - telefax

Attorney for Applicant(s)